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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,208	10/29/2003	Jay R. Walton	010454D1	7298
23696 OUALCOMM	7590 07/09/2010 INCORPORATED	EXAMINER		
5775 MOREH	OUSE DR.	CUMMING, WILLIAM D		
SAN DIEGO,	CA 92121		ART UNIT	PAPER NUMBER
			2617	
			NOTIFICATION DATE	DELIVERY MODE
			07/09/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail $\,$ address(es):

us-docketing@qualcomm.com

Office Action Summary

Application No.	Applicant(s)		
10/696,208	WALTON ET AL.		
Examiner	Art Unit		
WILLIAM D. CUMMING	2617		

	WILLIAM D. CUMMING	2617						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In or event, however, may a reply be timely filed after SK (6) MONTHS from the making date of this communication. If NO period for reply is specified above, the reasonium statutory period will apply and will expire SK (6) MONTHS from the making date of this communication. If NO period for reply is specified above, the reasonium statutory period will apply and will expire SK (6) MONTHS from the making date of this communication. If NO period for reply is specified by the Coffice later than three monthly will by statute, cause the application to become ABMODNED (SS U.S.C.) § 130.1 Any reply received by the Coffice later than three monthly will be stated to this communication, even it transly filed, may reduce any earned pattern term adulations. See 37 CFR 1.704(b)								
Status								
1) Responsive to communication(s) filed on 07 Ap	1) Responsive to communication(s) filed on <u>07 April 2010</u> .							
2a) This action is FINAL . 2b) This a	☐ This action is FINAL. 2b)☐ This action is non-final.							
 Since this application is in condition for allowan 	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4) Claim(s) 1-26 is/are pending in the application.	4) Claim(s) 1-26 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) 1-26 is/are allowed.								
6) Claim(s) is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	election requirement.							
Application Papers								
9) The specification is objected to by the Examiner								
10) ☐ The drawing(s) filed on 10/29/2003 is/are: a) ☐		the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c⟩ None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary Paper No(s)/Mail Da	(PTO-413) ite						

3) Information Disclosure Statement(s) (FTO/S8/08)
Paper No(s)/Mail Date ______

5) Notice of Informal Patent Application
6) Other: _____

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DETAILED ACTION

Drawings

- 1. The drawings were received on April 6, 2010. These drawings are approved.
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the steps of decovering the data samples with a cover code to provide decovered samples, wherein the transforming is performed on the decovered samples; discarding data samples corresponding to a cyclic prefix appended to each OFDM symbol; combining demodulated symbols derived from a plurality of received signals to provide combined demodulated symbols; the plurality of received signals are transmitted from a plurality of cells or sectors in the system; estimating a response for the communication channel, and wherein each set of despreading coefficients is derived based in part on a set of weights indicative of the estimated channel response; the channel response is estimated based on a pilot included in the received signal; estimating a quality of the received signal; and transmitting power control commands derived based on the estimated received signal quality; the received signal quality is estimated based on a pilot included in the received signal, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

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- 3. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 4. The drawings are objected to because reference numbers are missing in figure 9 and is needed for better understanding of the invention. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the

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appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

Allowable Subject Matter

- Claims 1-26 are allowed.
- As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Conclusion

 This application is in condition for allowance except for the following above matters.

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Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

- A shortened statutory period for reply to this action is set to expire TWO
 MONTHS from the mailing date of this letter.
- Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to WILLIAM D. CUMMING whose telephone number is
 571-272-7861. The examiner can normally be reached on Tuesday-Thursday 11:30am8:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on 571-272-7023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WILLIAM D. CUMMING/ Primary Examiner Art Unit 2617



UNITED STATES PATENT AND TRADEMARK OFFICE

> WILLIAM CUMMING PRIMARY PATENT EXAMINER William.Cumming@uspto.gov